Docket No.: 2455-4602

Ser. No. 09/314,637

5.   (Amended) The system of claim 1, further comprising:

an utterance verification processor that identifies out-of-vocabulary utterances and utterances that are poorly recognized in unconstrained input speech.

6.   (Amended) The system of claim 1, further comprising:

a validity database that stores a numeric grammar comprising rules relating to naturals, restarts, alphabets, city/country, numeric phrases and out-of-vocabulary classes; and

a string validation processor that outputs validity information based on a comparison of the sequence of digits with the numeric grammar.

9.   (Amended) The system of claim 1, wherein:

the numeric understanding processor recognizing restart, city/country and miscellaneous phrases in the string of words.

10.   (Amended) A method, comprising the steps of:

receiving unconstrained input speech as a string of words that can include a numeric language comprising a set of words or phrases relevant for interpreting an understanding a set of number strings; and

converting the string of words into a sequence of digits.

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Please add the following new Claims:

11. (NEW) A system comprising,

a feature extractor for receiving a speech input signal and outputting cepstral vectors representative of the speech input signal;

speech recognition apparatus responsive to the cepstral vectors, an acoustic model data base and a language model database and producing a set of words that include a numeric language;

a numeric understanding processor converting the strings of words and outputting a sequence of digits based on a set of rules relating to classes of phrases;

a validation database for storing valid credit card and telephone numbers;

a string validation processor for determining whether the sequence of digits identified in the numeric language is a valid existing credit card or telephone number; and

an utterance processor providing a dialogue manager with a verification measure of confidence for call confirmation, repair or disambiguation

12. (NEW) A method comprising

receiving a speech input signal and extracting cepstral vectors representative of the speech input signal;

producing a set of words based upon the cepstral vectors, an acoustic model data base and a language model database and including a numeric language;

converting the strings of words and outputting a sequence of digits based on a set of rules relating to classes of phrases,

storing valid credit card and telephone numbers in a validation database